

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$132,417

Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2023	\$133,130
2024	\$134,453

PROJECT PERSONNEL

Principal Investigator [REDACTED]

Email: [REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Lynda Kummelt

Email: lkummelt@nsf.gov

Awarding Official

Name: Denise M. Martin

Email: dmartin@nsf.gov

Managing Program Officer

Name: Adriana Salerno

Email: asalerno@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 10/04/2021, available at <https://www.nsf.gov/awards/managing rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	1.50

Senior Personnel Amount	\$52,015
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	1.00
Graduate Students Amount	\$14,062
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$66,077
C. Fringe Benefits	\$12,276
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$78,353
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0

Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$78,353
I. Indirect Costs*	\$54,064
J. Total Direct and Indirect Costs (H + I)	\$132,417
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$132,417
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2200981

Managing Division
Abbreviation: DMS

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE
Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366
Official Recipient Email Address: [REDACTED]
Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Other Admin No Fund Actions
Amendment Date: 12/05/2023
Amendment Number: 001
Proposal Number: Not Applicable
Amendment Description:

The purpose of this amendment is to change the PI or co-PI in accordance with the Change PI and Add/Change Co-PI request submitted on 11/07/2023. Effective with this amendment, the project is now under the direction of [REDACTED]

Except as modified by this amendment, the award conditions remain unchanged.

PROJECT PERSONNEL

Principal Investigator: [REDACTED]

Email: [REDACTED]

Organization:
PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)
Name: Lynda Kummelt

Awarding Official
Name: Lynda Kummelt
Email: lkummelt@nsf.gov

Managing Program Officer
Name: Adriana Salerno

Email: lkummelt@nsf.gov
Phone: (703) 292-7721

Email: asalerno@nsf.gov
Phone: (703) 292-2271

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2200981

Managing Division Abbreviation: DMS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 04/08/2022

Amendment Number: 000

Proposal Number: 2200981

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2200981

Award Instrument: Standard Grant

Award Date: 04/08/2022

Award Period of Performance: Start Date: 07/01/2022 End Date: 06/30/2025

Project Title: Unlikely Intersections in Diophantine Geometry and Dynamics

Managing Division Abbreviation: DMS

Research and Development Award: Yes

Funding Opportunity: PD 20-1264 Algebra and Number Theory

Assistance Listing Number(s) and Name(s): 47.049 Mathematical and Physical Sciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$162,012

Total Intended Award Amount: \$162,012

Total Approved Cost Share or Matching Amount: \$0**Total Amount Obligated to Date:** \$162,012**Expenditure Limitation:** Not Applicable**PROJECT PERSONNEL****Principal Investigator:** [REDACTED]**Email:** [REDACTED]**Organization:** PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE**NSF CONTACT INFORMATION****Managing Grants Official**

(Primary Contact)

Name: Lynda Kummelt**Email:** lkummelt@nsf.gov**Awarding Official****Name:** Lynda Kummelt**Email:** lkummelt@nsf.gov**Managing Program Officer****Name:** Adriana Salerno**Email:** asalerno@nsf.gov**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 10/04/2021, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	6.00
Senior Personnel Amount	\$59,357
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00

Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$59,357
C. Fringe Benefits	\$14,008
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$73,365
D. Equipment	\$0
E. Travel	
Domestic	\$4,500
International	\$18,000
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0

Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$95,865
I. Indirect Costs*	\$66,147
J. Total Direct and Indirect Costs (H + I)	\$162,012
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$162,012
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2202113

Managing Division Abbreviation: AGS

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Supplement

Amendment Date: 02/08/2024

Amendment Number: 001

Proposal Number: 2406720

Amendment Description:

The purpose of this amendment is to:

- Add supplemental support to the award in the amount shown below in the Funding Information section.

Except as modified by this amendment, the award conditions remain unchanged.

AWARD INFORMATION

Award Number (FAIN): 2202113

Award Instrument: Standard Grant

Award Date: 05/09/2022

Award Period of Performance: Start Date: 06/01/2022 End Date: 05/31/2025

Project Title: AGS-FIRP Track 3: Methane Emissions Quantification at Scales from 20m to 200km
Using the MethaneAIR Imaging Spectrometer on the NSF Gulfstream-V (MAIR-E)

Managing Division Abbreviation: AGS

Research and Development Award: Yes

Funding Opportunity: NSF 21-611 Facility and Instrumentation Request Process

Assistance Listing Number(s) and Name(s): 47.050 Geosciences (See Amendment 000 for source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$209,000
Total Intended Award Amount: \$1,045,206
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$1,254,206

PROJECT PERSONNEL**Principal Investigator:**

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email

[REDACTED]

Organization: UNIVERSITY
OF UTAH

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Staci Jenkins**Email:** sjenkins@nsf.gov**Phone:** (703) 292-5042**Awarding Official****Name:** Willie M. Powell**Email:** wpowell@nsf.gov**Managing Program Officer****Name:** Sylvia Edgerton**Email:** sedgerto@nsf.gov**Phone:** (703) 292-8522**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	0.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer	0.00

Months	
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	1.00
Other Professionals Calendar Months	4.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$41,126
Graduate Students	
Graduate Students Count	2.00
Graduate Students Amount	\$22,040
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$63,166
C. Fringe Benefits	\$16,985
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$80,151
D. Equipment	\$0
E. Travel	
Domestic	\$13,900
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs	\$0

Subsistence	
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$33,494
<i>Total Other Direct Costs (G)</i>	\$33,494
H. Total Direct Costs (A Through G)	\$127,545
I. Indirect Costs*	\$81,455
J. Total Direct and Indirect Costs (H + I)	\$209,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$209,000
M. Cost Sharing Proposed Level	\$0

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2202113

Managing Division Abbreviation: AGS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 05/09/2022

Amendment Number: 000

Proposal Number: 2202113

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

The Foundation authorizes the awardee to enter into the proposed subaward arrangement. The subaward agreement should contain appropriate provisions in accordance with the award terms and conditions in effect at the time of this award amendment, and contain any special conditions included in this award.

AWARD INFORMATION

Award Number (FAIN): 2202113

Award Instrument: Standard Grant

Award Date: 05/09/2022

Award Period of Performance: Start Date: 06/01/2022 End Date: 05/31/2025

Project Title: AGS-FIRP Track 3: Methane Emissions Quantification at Scales from 20m to 200km Using the MethaneAIR Imaging Spectrometer on the NSF Gulfstream-V (MAIR-E)

Managing Division Abbreviation: AGS

Research and Development Award: Yes

Funding Opportunity: NSF 21-611 Facility and Instrumentation Request Process

Assistance Listing Number(s) and Name(s): 47.050 Geosciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$1,045,206
Total Intended Award Amount: \$1,045,206
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$1,045,206
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: UNIVERSITY
OF UTAH, THE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Meredith Whitty

Email: mwhitty@nsf.gov

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Sylvia Edgerton

Email: sedgerto@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 10/04/2021, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-611 Facility and Instrumentation Request Process.

BUDGET

A. Senior Personnel	
Senior Personnel Count	6.00
Senior Personnel Calendar Months	15.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00

Senior Personnel Amount	\$100,336
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	6.00
Graduate Students Amount	\$168,859
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	3.00
Other Amount	\$39,409
<i>Total Salaries and Wages (A+B)</i>	\$308,604
C. Fringe Benefits	\$32,980
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$341,584
D. Equipment	\$0
E. Travel	
Domestic	\$18,628
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0

Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$312,232
Other	\$90,406
<i>Total Other Direct Costs (G)</i>	\$402,638
H. Total Direct Costs (A Through G)	\$762,850
I. Indirect Costs*	\$282,356
J. Total Direct and Indirect Costs (H + I)	\$1,045,206
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$1,045,206
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2202698

Managing Division Abbreviation: AGS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 06/27/2022

Amendment Number: 000

Proposal Number: 2202698

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2202698

Award Instrument: Standard Grant

Award Date: 06/27/2022

Award Period of Performance: Start Date: 07/01/2022 End Date: 06/30/2025

Project Title: Collaborative Research: P2C2--Constraints on Last Interglacial and Late Holocene Global Mean Sea Level and Fingerprinting Polar Ice Mass Flux from Broadly Distributed Coastal Caves

Managing Division Abbreviation: AGS

Research and Development Award: Yes

Funding Opportunity: NSF 17-582 Paleo Perspectives on Climate Change

Assistance Listing Number(s) and Name(s): 47.050 Geosciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$68,389

Total Intended Award Amount: \$68,389
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$68,389
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2202683	Y	[REDACTED]	University of South Florida
2202698	N	[REDACTED]	Harvard College, President & Fellows of Harvard University
2202712	N	[REDACTED]	University of New Mexico

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact) Name: Meredith Whitty Email: mwhitty@nsf.gov	Awarding Official Name: Willie M. Powell Email: wpowell@nsf.gov	Managing Program Officer Name: Soumaya Belmecheri Email: sbelmech@nsf.gov
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GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/13/2022, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 17-582 Paleo Perspectives on Climate Change.

BUDGET**A. Senior Personnel**

Senior Personnel Count	0.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0

B. Other Personnel**Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

Other Professionals

Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0

Graduate Students

Graduate Students Count	3.00
Graduate Students Amount	\$31,972

Undergraduate Students

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

Other

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$31,972

C. Fringe Benefits

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$31,972
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D. Equipment

	\$0
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E. Travel

Domestic	\$5,495
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$3,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$3,000
H. Total Direct Costs (A Through G)	\$40,467
I. Indirect Costs*	\$27,922
J. Total Direct and Indirect Costs (H + I)	\$68,389
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$68,389
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2202772

Managing Division Abbreviation: AGS

Amendment Number: 000

AWARDEE INFORMATION

Award Recipient: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Awardee Address: 1033 MASSACHUSETTS AVE 5TH FL CAMBRIDGE, MA 02138-5369

Official Awardee Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 05/06/2022

Amendment Number: 000

Proposal Number: 2202772

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

Costs of entertainment, amusement, diversion and social activities, and any costs directly associated with such activities (such as meals, lodging, rentals, transportation and gratuities) are unallowable.

When certain meals are an integral and necessary part of a conference or meeting (i.e., working meals where business is transacted), grant funds may be used for such meals. Grant funds may also be used to furnish a reasonable amount of coffee or soft drinks for conference or meeting participants and attendees during coffee breaks. No NSF funds may be spent on meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to, laboratories, departments and centers.

AWARD INFORMATION

Award Number (FAIN): 2202772

Award Instrument: Standard Grant

Award Date: 05/06/2022

Award Period of Performance: Start Date: 07/01/2022 End Date: 06/30/2025

Project Title: High Spatial Resolution Assessment of the Speleothem Magnetization Proxy

Managing Division Abbreviation: AGS

Research and Development Award: Yes

Funding Opportunity: PD 98-1530 Paleoclimate

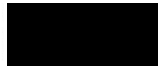
Assistance Listing Number(s) and Name(s): 47.050 Geosciences

FUNDING INFORMATION

Amount Obligated by this Amendment: \$313,105
Total Intended Award Amount: \$313,105
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$313,105
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:



Email:



Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Meredith Whitty
Email: mwhitty@nsf.gov

Awarding Official

Name: Willie M. Powell
Email: wpowell@nsf.gov

Managing Program Officer

Name: Soumaya Belmecheri
Email: sbelmech@nsf.gov

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 10/04/2021, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	1.50
Senior Personnel Academic Months	0.00

Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$18,765
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	2.00
Graduate Students Amount	\$83,991
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$102,756
C. Fringe Benefits	\$4,429
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$107,185
D. Equipment	\$43,313
E. Travel	
Domestic	\$13,924
International	\$5,537
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0

Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$10,257
Publication Costs	\$6,400
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$16,337
<i>Total Other Direct Costs (G)</i>	\$32,994
H. Total Direct Costs (A Through G)	\$202,953
I. Indirect Costs*	\$110,152
J. Total Direct and Indirect Costs (H + I)	\$313,105
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$313,105
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Facilities and Administrative Costs	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2416022

Managing Division Abbreviation: BCS

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/24/2024

Amendment Number: 000

Proposal Number: 2416022

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

It is the grantee's responsibility to ensure that any human subjects work conducted under this award has an Institutional Review Board (IRB) approval, where required, and that such approval remains valid at all times that human subjects work is conducted under the award. Failure to comply with this condition will result in suspension and/or termination of the award.

Incentive payments or gifts to participants must be made in accordance with written institutional policies and procedures and supported by auditable documentation. The allowability of these costs will ultimately be based on the awardee institution's ability to adequately demonstrate that the incentives have been disbursed in accordance with its policies and procedures.

AWARD INFORMATION

Award Number (FAIN): 2416022

Award Instrument: Standard Grant

Award Date: 07/24/2024

Award Period of Performance: Start Date: 01/15/2025 End Date: 12/31/2026

Project Title: Doctoral Dissertation Research: Understanding the Long-Term Drivers of Community

Reconciliation in Post-Conflict Societies

Managing Division Abbreviation: BCS

Research and Development Award: Yes

Funding Opportunity: NSF 23-502 Cultural Anthropology Program - Doctoral Dissertation Research Improvement Grants

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$31,185

Total Intended Award Amount: \$31,185

Total Approved Cost Share or Matching Amount: \$0

Total Amount Obligated to Date: \$31,185

Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:

PRESIDENT AND
FELLOWS OF
HARVARD COLLEGE

co-Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization:

PRESIDENT AND
FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Phone: (703) 292-7046

Awarding Official

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Managing Program Officer

Name: Tarini Bedi

Email: tbedi@nsf.gov

Phone:

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-502 Cultural Anthropology Program - Doctoral Dissertation Research Improvement Grants.

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$0
C. Fringe Benefits	\$0

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$0
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$17,300
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$2,160
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$210
Subawards	\$0
Other	\$5,080
<i>Total Other Direct Costs (G)</i>	\$7,450
H. Total Direct Costs (A Through G)	\$24,750
I. Indirect Costs*	\$6,435
J. Total Direct and Indirect Costs (H + I)	\$31,185
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$31,185
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Modified Total Direct Costs - Off Campus Research	26.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2417150

Managing Division Abbreviation: DUE

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 08/05/2024

Amendment Number: 000

Proposal Number: 2417150

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 04/08/2024.

AWARD INFORMATION

Award Number (FAIN): 2417150

Award Instrument: Standard Grant

Award Date: 08/05/2024

Award Period of Performance: Start Date: 08/15/2024 End Date: 07/31/2027

Project Title: Tracking Adaptation and Investigating Learning Outcomes for Reforming Mathematics for Life Sciences

Managing Division Abbreviation: DUE

Research and Development Award: Yes

Funding Opportunity: NSF 23-510 Improving Undergraduate STEM Education: Directorate for STEM Education

Assistance Listing Number(s) and Name(s): 47.076 Education and Human Resources (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$55,346
Total Intended Award Amount: \$55,346
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$55,346
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2417149	Y	[REDACTED]	Texas State University-San Marcos
2417150	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact): Khoren Claiborne
Name: Khoren Claiborne
Email: kclaibor@nsf.gov
Phone: (703) 292-2313

Awarding Official
Name: Khoren Claiborne
Email: kclaibor@nsf.gov

Managing Program Officer
Name: Keith A. Sverdrup
Email: ksverdru@nsf.gov
Phone: (703) 292-4671

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-510 Improving Undergraduate STEM Education: Directorate for STEM Education.

BUDGET**A. Senior Personnel**

Senior Personnel Count	3.00
Senior Personnel Calendar Months	1.50
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$20,555

B. Other Personnel**Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

Other Professionals

Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0

Graduate Students

Graduate Students Count	0.00
Graduate Students Amount	\$0

Undergraduate Students

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

Other

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$20,555

C. Fringe Benefits

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$4,420
	\$24,975

D. Equipment

	\$0
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E. Travel

Domestic	\$15,200
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$3,750
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$3,750
H. Total Direct Costs (A Through G)	\$43,925
I. Indirect Costs*	\$11,421
J. Total Direct and Indirect Costs (H + I)	\$55,346
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$55,346
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Harvard IDC	26.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2341785

Managing Division Abbreviation: SES

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/08/2024

Amendment Number: 000

Proposal Number: 2341785

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 02/05/2024.

AWARD INFORMATION

Award Number (FAIN): 2341785

Award Instrument: Continuing Grant

Award Date: 07/08/2024

Award Period of Performance: Start Date: 07/15/2024 End Date: 06/30/2027

Project Title: Pluralism in Biological Models of Sex

Managing Division Abbreviation: SES

Research and Development Award: Yes

Funding Opportunity: NSF 22-629 Science and Technology Studies

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences
(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$193,699
Total Intended Award Amount: \$432,782
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$193,699
Expenditure Limitation: Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$201,110
2026	\$37,973

PROJECT PERSONNEL

Principal Investigator:



Email:



Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Phone: (703) 292-7046

Awarding Official

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Managing Program Officer

Name: Christine Leuenberger

Email: cleuenbe@nsf.gov

Phone: (703) 292-7563

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-629 Science and Technology Studies.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.00

Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$75,000
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	1.00
Other Amount	\$18,000
<i>Total Salaries and Wages (A+B)</i>	\$93,000
C. Fringe Benefits	\$16,615
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$109,615
D. Equipment	\$0
E. Travel	
Domestic	\$2,500
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0

Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$2,500
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$2,500
H. Total Direct Costs (A Through G)	\$114,615
I. Indirect Costs*	\$79,084
J. Total Direct and Indirect Costs (H + I)	\$193,699
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$193,699
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Modified Total Direct Costs	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2342821

Managing Division Abbreviation: DMS

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Renewal

Amendment Date: 01/24/2024

Amendment Number: 000

Proposal Number: 2342821

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

The "Administration of NSF Conference or Group Travel Award Grant Conditions (FL 26)" in effect the date of this amendment are applicable. The FL 26 special award conditions can be found at: https://www.nsf.gov/awards/managing/special_conditions.jsp.

Funds provided for participant support may not be diverted by the awardee to other categories of expense without the prior written approval of the cognizant NSF Program Officer. Since participant support cost is not a normal account classification, the awardee organization must be able to separately identify participant support costs. It is highly recommended that separate accounts, sub-accounts, sub-task, or sub-ledgers be established to accumulate these costs. The awardee should have written policies and procedures to segregate participant support costs.

Costs of entertainment, amusement, diversion and social activities, and any costs directly associated with such activities (such as meals, lodging, rentals, transportation and gratuities) are unallowable.

When certain meals are an integral and necessary part of a conference or meeting (i.e., working meals where business is transacted), grant funds may be used for such meals. Grant funds may also be used to furnish a reasonable amount of coffee or soft drinks for conference or meeting participants and attendees during coffee breaks.

No NSF funds may be spent on meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to, laboratories, departments and centers.

AWARD INFORMATION**Award Number (FAIN):** 2342821**Award Instrument:** Standard Grant**Award Date:** 01/24/2024**Award Period of Performance:** Start Date: 02/01/2024 End Date: 01/31/2027**Project Title:** Conference: Emerging Statistical and Quantitative Issues in Genomic Research in Health Sciences**Managing Division Abbreviation:** DMS**Research and Development Award:** Yes**Funding Opportunity:** NSF 21-541 Conferences and Workshops in the Mathematical Sciences**Assistance Listing Number(s) and Name(s):** 47.049 Mathematical and Physical Sciences
(Predominant source of funding for SEFA reporting)**FUNDING INFORMATION****Amount Obligated by this Amendment:** \$61,920**Total Intended Award Amount:** \$61,920**Total Approved Cost Share or Matching Amount:** \$0**Total Amount Obligated to Date:** \$61,920**Expenditure Limitation:** Not Applicable**PROJECT PERSONNEL****Principal Investigator:****Email:****Organization:** PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE**NSF CONTACT INFORMATION****Managing Grants Official**
(Primary Contact)**Name:** Lynda Kummelt**Email:** lkummelt@nsf.gov**Phone:** (703) 292-7721**Awarding Official****Name:** Lynda Kummelt**Email:** lkummelt@nsf.gov**Managing Program Officer****Name:** Tapabrata Maiti**Email:** tmaiti@nsf.gov**Phone:** (703) 292-5307**GENERAL TERMS AND CONDITIONS**

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 21-541 Conferences and Workshops in the Mathematical Sciences.

BUDGET

A. Senior Personnel	
Senior Personnel Count	3.00
Senior Personnel Calendar Months	0.00
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$0
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$0
C. Fringe Benefits	\$0

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$0
D. Equipment	\$0
E. Travel	
Domestic	\$0
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$27,000
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$34,920
Total Number of Participants	132.00
<i>Total Participant Costs (F)</i>	\$61,920
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$61,920
I. Indirect Costs*	\$0
J. Total Direct and Indirect Costs (H + I)	\$61,920
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$61,920
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

The indirect cost rate(s) for this award is/are not available. These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2343233

Managing Division Abbreviation: EAR

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 07/26/2024

Amendment Number: 000

Proposal Number: 2343233

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2343233

Award Instrument: Standard Grant

Award Date: 07/26/2024

Award Period of Performance: Start Date: 09/01/2024 End Date: 08/31/2027

Project Title: Collaborative Research: Time-dependent imaging of earthquake cycle behavior across the Japan fault system

Managing Division Abbreviation: EAR

Research and Development Award: Yes

Funding Opportunity: NSF 22-563 Geophysics

Assistance Listing Number(s) and Name(s): 47.050 Geosciences (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$227,954
Total Intended Award Amount: \$227,954
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$227,954
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2343233	Y	[REDACTED]	Harvard College, President & Fellows of Harvard University
2343234	N	[REDACTED]	Smith College

NSF CONTACT INFORMATION

Managing Grants

Official (Primary Contact)
Name: Angela A. Turner
Email: aturner@nsf.gov
Phone: (703) 292-7524

Awarding Official
Name: Angela A. Turner
Email: aturner@nsf.gov

Managing Program Officer
Name: Elizabeth Hearn
Email: ehearn@nsf.gov
Phone:

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 22-563 Geophysics.

BUDGET**A. Senior Personnel**

Senior Personnel Count	3.00
Senior Personnel Calendar Months	1.50
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$41,439

B. Other Personnel**Post Doctoral Scholars**

Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0

Other Professionals

Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0

Graduate Students

Graduate Students Count	3.00
Graduate Students Amount	\$75,636

Undergraduate Students

Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0

Secretarial - Clerical

Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0

Other

Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$117,075

C. Fringe Benefits

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$8,910
	\$125,985

D. Equipment

	\$0
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E. Travel	
Domestic	\$6,900
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$2,000
<i>Total Other Direct Costs (G)</i>	\$2,000
H. Total Direct Costs (A Through G)	\$134,885
I. Indirect Costs*	\$93,069
J. Total Direct and Indirect Costs (H + I)	\$227,954
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$227,954
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
Facilities & Administration	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2343922

Managing Division
Abbreviation: SES

Amendment Number: 001

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE
Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366
Official Recipient Email Address: [REDACTED]
Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: Other Admin No Fund Actions
Amendment Date: 04/05/2024
Amendment Number: 001
Proposal Number: Not Applicable
Amendment Description:

The purpose of this amendment is to:

- Correct the award end date from 02/28/2029 to 02/28/2027.

Except as modified by this amendment, the award conditions remain unchanged.

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT AND
FELLOWS OF HARVARD
COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official
(Primary Contact)
Name: Tyffani N. Smith
Email: tnsmith@nsf.gov
Phone: (703) 292-7046

Awarding Official
Name: Tyffani N. Smith
Email: tnsmith@nsf.gov

Managing Program Officer
Name: Eric A Bahel
Email: ebahel@nsf.gov
Phone: (703) 292-7858

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2343922

Managing Division Abbreviation: SES

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 03/06/2024

Amendment Number: 000

Proposal Number: 2343922

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 01/29/2024.

No work with human subjects, including recruitment, may be conducted under this protocol or grant until IRB approval has been obtained.

Incentive payments or gifts to participants must be made in accordance with written institutional policies and procedures and supported by auditable documentation. The allowability of these costs will ultimately be based on the awardee institution's ability to adequately demonstrate that the incentives have been disbursed in accordance with its policies and procedures.

AWARD INFORMATION

Award Number (FAIN): 2343922

Award Instrument: Standard Grant

Award Date: 03/06/2024

Award Period of Performance: Start Date: 03/15/2024 End Date: 02/28/2029

Project Title: NSF-BSF: Mechanism Design for All

Managing Division Abbreviation: SES

Research and Development Award: Yes

Funding Opportunity: PD 23-1320 Economics

Assistance Listing Number(s) and Name(s): 47.075 Social, Behavioral, and Economic Sciences

(Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$462,400
Total Intended Award Amount: \$462,400
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$462,400
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

Email:

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Tyffani N. Smith

Email: tnsmith@nsf.gov

Phone: (703) 292-7046

Awarding Official

Name: Willie M. Powell

Email: wpowell@nsf.gov

Managing Program Officer

Name: Eric A Bahel

Email: ebahel@nsf.gov

Phone: (703) 292-7858

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

BUDGET

A. Senior Personnel	
Senior Personnel Count	6.00
Senior Personnel Calendar Months	4.00
Senior Personnel Academic Months	0.00

Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$96,382
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	
Graduate Students Count	2.00
Graduate Students Amount	\$69,643
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	2.00
Other Amount	\$41,781
<i>Total Salaries and Wages (A+B)</i>	\$207,806
C. Fringe Benefits	
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$228,528
D. Equipment	
E. Travel	
Domestic	\$2,000
International	\$7,200
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0

Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$3,036
Publication Costs	\$250
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$49,654
<i>Total Other Direct Costs (G)</i>	\$52,940
H. Total Direct Costs (A Through G)	\$290,668
I. Indirect Costs*	\$171,732
J. Total Direct and Indirect Costs (H + I)	\$462,400
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$462,400
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
PI Salary, Grad student supp., Undergrad student supp., fringe	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2345627

Managing Division Abbreviation: DEB

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 05/30/2024

Amendment Number: 000

Proposal Number: 2345627

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 02/20/2024.

AWARD INFORMATION

Award Number (FAIN): 2345627

Award Instrument: Standard Grant

Award Date: 05/30/2024

Award Period of Performance: Start Date: 08/01/2024 End Date: 07/31/2026

Project Title: Collaborative Research: Revealing the vast diversity within the legume-rhizobia mutualism

Managing Division Abbreviation: DEB

Research and Development Award: Yes

Funding Opportunity: NSF 23-549 Division of Environmental Biology (core programs)

Assistance Listing Number(s) and Name(s): 47.074 Biological Sciences (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$30,608
Total Intended Award Amount: \$30,608
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$30,608
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator: [REDACTED] **Email:** [REDACTED] **Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE

COLLABORATIVE INFORMATION

Proposal ID	Lead	PI Name	Organization
2345626	Y	[REDACTED]	The University of North Carolina Greensboro
2345627	N	[REDACTED]	Harvard College, President & Fellows of Harvard University

NSF CONTACT INFORMATION

Managing Grants Official (Primary Contact)	Awarding Official	Managing Program Officer
Name: Sharon D. Glivens Email: sglivens@nsf.gov Phone: (703) 292-7837	Name: Sharon D. Glivens Email: sglivens@nsf.gov	Name: Kari Segraves Email: ksegrave@nsf.gov Phone: (703) 292-8935

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 01/30/2023, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-549 Division of Environmental Biology (core programs).

BUDGET

A. Senior Personnel	
Senior Personnel Count	2.00
Senior Personnel Calendar Months	0.50
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$6,603
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	0.00
Post Doctoral Calendar Months	0.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$0
Other Professionals	
Other Professionals Count	1.00
Other Professionals Calendar Months	1.20
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$5,094
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$11,697
C. Fringe Benefits	\$3,524

<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$15,221
D. Equipment	\$0
E. Travel	
Domestic	\$2,890
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$0
Computer Services	\$0
Subawards	\$0
Other	\$0
<i>Total Other Direct Costs (G)</i>	\$0
H. Total Direct Costs (A Through G)	\$18,111
I. Indirect Costs*	\$12,497
J. Total Direct and Indirect Costs (H + I)	\$30,608
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$30,608
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2346137

Managing Division Abbreviation: TI

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 06/13/2024

Amendment Number: 000

Proposal Number: 2346137

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above.

AWARD INFORMATION

Award Number (FAIN): 2346137

Award Instrument: Standard Grant

Award Date: 06/13/2024

Award Period of Performance: Start Date: 06/15/2024 End Date: 05/31/2025

Project Title: POSE: Phase I: Open Source Soft Robotics (OSSR): An Open-Source Ecosystem to Increase Access and Enable Discovery of Soft Robotic Technologies

Managing Division Abbreviation: TI

Research and Development Award: Yes

Funding Opportunity: NSF 23-556 Pathways to Enable Open-Source Ecosystems

Assistance Listing Number(s) and Name(s): 47.084 NSF Technology, Innovation and Partnerships (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION

Amount Obligated by this Amendment: \$300,000
Total Intended Award Amount: \$300,000
Total Approved Cost Share or Matching Amount: \$0
Total Amount Obligated to Date: \$300,000
Expenditure Limitation: Not Applicable

PROJECT PERSONNEL

Principal Investigator:

[REDACTED]

Email:

[REDACTED]

Organization: PRESIDENT
AND FELLOWS OF
HARVARD COLLEGE

NSF CONTACT INFORMATION

Managing Grants Official

(Primary Contact)

Name: Austin Torretti

Email: atorrett@nsf.gov

Phone: (703) 292-4371

Awarding Official

Name: Austin Torretti

Email: atorrett@nsf.gov

Managing Program Officer

Name: Peter S. Atherton

Email: patherto@nsf.gov

Phone: (703) 292-8772

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-556 Pathways to Enable Open-Source Ecosystems.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.36
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$9,260

B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$66,463
Other Professionals	
Other Professionals Count	1.00
Other Professionals Calendar Months	12.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$26,074
Graduate Students	
Graduate Students Count	0.00
Graduate Students Amount	\$0
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$101,797
C. Fringe Benefits	\$21,886
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$123,683
D. Equipment	\$0
E. Travel	
Domestic	\$16,244
International	\$4,488
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0

Total Number of Participants	0.00
Total Participant Costs (F)	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$0
Consultant Services	\$7,500
Computer Services	\$0
Subawards	\$0
Other	\$25,600
Total Other Direct Costs (G)	\$33,100
H. Total Direct Costs (A Through G)	\$177,515
I. Indirect Costs*	\$122,485
J. Total Direct and Indirect Costs (H + I)	\$300,000
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$300,000
M. Cost Sharing Proposed Level	\$0

*Indirect Cost Rates

Item Name	Indirect Cost Rate
MTDC base	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2346173

Managing Division Abbreviation: TI

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 06/27/2024

Amendment Number: 000

Proposal Number: 2346173

Amendment Description:

The National Science Foundation hereby awards a Continuing Grant for support of the project described in the proposal referenced above as modified by revised budget dated 04/16/2024, and email dated 05/30/2024.

The Foundation authorizes the awardee to enter into the proposed subaward arrangement. The subaward agreement should contain appropriate provisions in accordance with the award terms and conditions in effect at the time of this award amendment, and contain any special conditions included in this award.

Costs of entertainment, amusement, diversion and social activities, and any costs directly associated with such activities (such as meals, lodging, rentals, transportation and gratuities) are unallowable.

When certain meals are an integral and necessary part of a conference or meeting (i.e., working meals where business is transacted), grant funds may be used for such meals. Grant funds may also be used to furnish a reasonable amount of coffee or soft drinks for conference or meeting participants and attendees during coffee breaks.

No NSF funds may be spent on meals or coffee breaks for intramural meetings of an organization or any of its components, including, but not limited to, laboratories, departments and centers.

AWARD INFORMATION

Award Number (FAIN): 2346173

Award Instrument: Continuing Grant

Award Date: 06/27/2024**Award Period of Performance:** Start Date: 07/01/2024 End Date: 06/30/2026**Project Title:** NSF POSE: Phase II: MLCommons Research for Science: Enabling Open-Source Ecosystems for Scientific Foundation Models by Community Standards and Benchmarks**Managing Division Abbreviation:** TI**Research and Development Award:** Yes**Funding Opportunity:** NSF 23-556 Pathways to Enable Open-Source Ecosystems**Assistance Listing Number(s) and Name(s):** 47.084 NSF Technology, Innovation and Partnerships (Predominant source of funding for SEFA reporting)**FUNDING INFORMATION****Amount Obligated by this Amendment:** \$738,226**Total Intended Award Amount:** \$1,500,000**Total Approved Cost Share or Matching Amount:** \$0**Total Amount Obligated to Date:** \$738,226**Expenditure Limitation:** Not Applicable

Contingent on the availability of funds and scientific progress of the project, NSF expects to continue support at approximately the following level:

Fiscal Year	Increment Amount
2025	\$761,774

PROJECT PERSONNEL**Principal Investigator:****Email:****Organization:** PRESIDENT AND FELLOWS OF HARVARD COLLEGE**co-Principal Investigator:****Email:****Organization:** RECTOR & VISITORS OF THE UNIVERSITY OF VIRGINIA**co-Principal Investigator:****Email:****Organization:** UNIVERSITY OF TENNESSEE**co-Principal Investigator:****Email:****Organization:** UNIVERSITY OF TENNESSEE**co-Principal Investigator:****Email:****Organization:** UNIVERSITY OF TENNESSEE**NSF CONTACT INFORMATION****Managing Grants Official**

(Primary Contact)

Name: Austin Torretti**Awarding Official****Name:** Austin Torretti**Email:** atorrett@nsf.gov**Managing Program Officer****Name:** Peter S. Atherton**Email:** patherto@nsf.gov

Email: atorrett@nsf.gov
Phone: (703) 292-4371

Phone: (703) 292-8772

GENERAL TERMS AND CONDITIONS

This is awarded pursuant to the authority of the National Science Foundation Act of 1950, as amended (42 U.S.C. 1861-75) and is subject to Research Terms and Conditions (RTCs) dated 11/12/2020, and NSF Agency Specific Requirements, dated 05/20/2024, available at <https://www.nsf.gov/awards/managing/rtc.jsp>.

This institution is a signatory to the Federal Demonstration Partnership (FDP) Phase VI Agreement which requires active institutional participation in new or ongoing FDP demonstrations and pilots.

This award is made in accordance with the provisions of NSF Solicitation: NSF 23-556 Pathways to Enable Open-Source Ecosystems.

BUDGET

A. Senior Personnel	
Senior Personnel Count	1.00
Senior Personnel Calendar Months	0.25
Senior Personnel Academic Months	0.00
Senior Personnel Summer Months	0.00
Senior Personnel Amount	\$4,870
B. Other Personnel	
Post Doctoral Scholars	
Post Doctoral Count	1.00
Post Doctoral Calendar Months	12.00
Post Doctoral Academic Months	0.00
Post Doctoral Summer Months	0.00
Post Doctoral Amount	\$71,225
Other Professionals	
Other Professionals Count	0.00
Other Professionals Calendar Months	0.00
Other Professionals Academic Months	0.00
Other Professionals Summer Months	0.00
Other Professionals Amount	\$0
Graduate Students	

Graduate Students Count	2.00
Graduate Students Amount	\$56,209
Undergraduate Students	
Undergraduate Students Count	0.00
Undergraduate Students Amount	\$0
Secretarial - Clerical	
Secretarial - Clerical Count	0.00
Secretarial - Clerical Amount	\$0
Other	
Other Count	0.00
Other Amount	\$0
<i>Total Salaries and Wages (A+B)</i>	\$132,304
C. Fringe Benefits	\$16,361
<i>Total Salaries, Wages, Fringe Benefits (A + B + C)</i>	\$148,665
D. Equipment	\$0
E. Travel	
Domestic	\$4,000
International	\$0
F. Participant Support Costs	
Participant Support Costs Stipends	\$0
Participant Support Costs Travel	\$0
Participant Support Costs Subsistence	\$0
Participant Support Costs Other	\$0
Total Number of Participants	0.00
<i>Total Participant Costs (F)</i>	\$0
G. Other Direct Costs	
Materials Supplies	\$0
Publication Costs	\$2,000
Consultant Services	\$0
Computer Services	\$0
Subawards	\$396,399
Other	\$36,629
<i>Total Other Direct Costs (G)</i>	\$435,028
H. Total Direct Costs (A Through G)	\$587,693
I. Indirect Costs*	\$150,533
J. Total Direct and Indirect Costs (H + I)	\$738,226
K. Fees	\$0
L. Total Amount of Request (J) OR (J + K)	\$738,226

M. Cost Sharing Proposed Level	\$0
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*Indirect Cost Rates

Item Name	Indirect Cost Rate
On-Campus Research MTDC	69.0000%

These rates are at the time of award and are based upon the budget submitted to the NSF. It does not include any out-year adjustments. The NSF will not modify awards simply to correct indirect cost rates cited in the award notice. See the Proposal & Award Policies & Procedures Guide (PAPPG) Chapter X.A.3.a. for guidance on re-budgeting authority.

NATIONAL SCIENCE FOUNDATION

Award Notice

Award Number (FAIN): 2347423

Managing Division Abbreviation: CBET

Amendment Number: 000

RECIPIENT INFORMATION

Recipient (Legal Business Name): PRESIDENT AND FELLOWS OF HARVARD COLLEGE

Recipient Address: 1033 MASSACHUSETTS AVE STE 3 CAMBRIDGE, MA 02138-5366

Official Recipient Email Address: [REDACTED]

Unique Entity Identifier (UEI): LN53LCFJFL45

AMENDMENT INFORMATION

Amendment Type: New Project

Amendment Date: 04/04/2024

Amendment Number: 000

Proposal Number: 2347423

Amendment Description:

The National Science Foundation hereby awards a Standard Grant for support of the project described in the proposal referenced above as modified by revised budget dated 11/21/2023.

AWARD INFORMATION

Award Number (FAIN): 2347423

Award Instrument: Standard Grant

Award Date: 04/04/2024

Award Period of Performance: Start Date: 03/01/2024 End Date: 02/28/2027

Project Title: Collaborative Research: CDS&E: Generalizable RANS Turbulence Models through Scientific Multi-Agent Reinforcement Learning

Managing Division Abbreviation: CBET

Research and Development Award: Yes

Funding Opportunity: PD 23-8084 Computational and Data-Enabled Science and Engineering

Assistance Listing Number(s) and Name(s): 47.041 Engineering Grants (Predominant source of funding for SEFA reporting)

FUNDING INFORMATION